

# MAINTENANCE MANUAL

## CEC/IMC DIGITAL AUDIO SWITCH

### MOM CONCENTRATOR CARD

#### 19D903533P1

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## DESCRIPTION

### GENERAL

Concentrator Cards are mounted on hinged horizontal panels at the rear of the CEC/IMC Digital Audio Switch cabinet. Use of Concentrator Cards standardizes connector pin-outs, cable types and cable routing in to and out of the CEC/IMC. External connectors on most Concentrator Cards are standard 50-pin Champ® connectors pinned-out for punch blocks. This allows interconnections to punch blocks via standard 25-pair Telco cables.

Each Concentrator Card is inserted into either audio paths or data paths in to and out of the CEC/IMC. Audio paths include EDACS site audio, conventional radio system audio, C3 console audio and logging recorder audio. Data paths include RS-232/RS-422 serial control data signals to and from GETC uplinks, C3 consoles, the System Manager Computer and the CEC/IMC Manager (MOM PC) computer. As the CEC/IMC is greatly expandable, these listings are non-inclusive.

With the exception of the MOM Concentrator Card covered by this maintenance manual, all other CEC/IMC Concentrator Cards convert the signal arrangement of the CEC/IMC Backplane's 24-pin dual-row connectors to 50-pin

Champ® connectors. These Champ connectors are pinned-out for standard punch blocks interconnections.

### MOM CONCENTRATOR CARD

#### Specifications

Height	5 inches
Width	4.25 inches
Internal Connector	One dual-row 24-pin header
External Connectors	Two DB-9 female (D-subminiature, 9 sockets)
Serial Interface Connections	
CEC/IMC Manager	3-wire RS-232
System Manager	3-wire RS-232
Associated Cables (Internal)	19D903628P1 (20 inches) 19D903628P2 (40 inches) 19D903628P3 (52 inches)
Associated Cables (External)	Customer supplied

#### NOTE

See LBI-38938 for installation details.

**Description**

The CEC/IMC MOM Concentrator Card is used exclusively for control data interconnections between the CEC/IMC Digital Audio Switch and the CEC/IMC and System Manager computers. These control data links employ RS-232 interconnections. No audio passes through the MOM Concentrator Card.

On the MOM Concentrator Card, connector J1 is the dual-row 24-pin connector on the internal-side of the

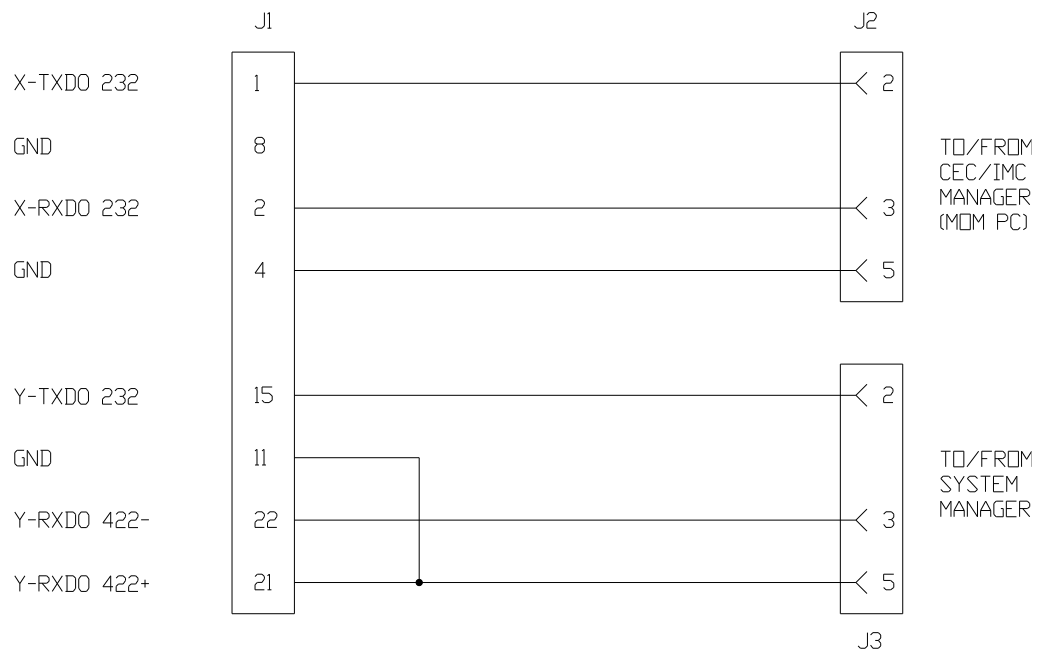
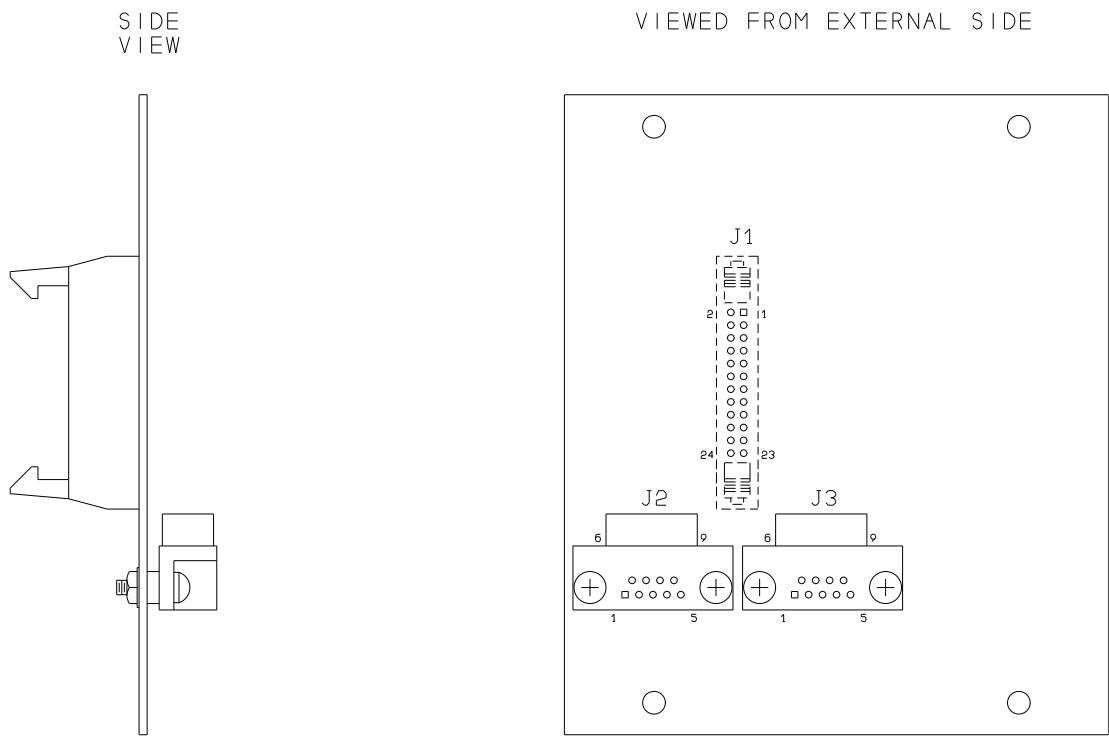
CEC/IMC. Inside the CEC/IMC cabinet, a Concentrator Card Cable interconnects J1 to the CEC/IMC Backplane. See the previous **Specifications** section for cable part numbers.

Connectors J2 and J3, both female DB-9 connectors, are located on the external side CEC/IMC. The CEC/IMC Manager (MOM PC) computer interconnects to the CEC/IMC via J2 and the System Manager computer interconnects via J3. See Table 1 below or the Schematic Diagram for specific pin-out information.

**TABLE 1 – MOM CONCENTRATOR CARD PIN-OUTS**

<b>INTERNAL CONNECTOR (24-PIN)</b>	<b>EXTERNAL CONNECTORS (DB-9)</b>		<b>SIGNAL NAME</b>	<b>USE</b>
	<b>J2</b>	<b>J3</b>		
<b>J1</b>	<b>J2</b>	<b>J3</b>	<b>SIGNAL NAME</b>	<b>USE</b>
1	2	—	X-TXD0 232	RS-232 transmit data to CEC/IMC Manager
2	3	—	X-RXD0 232	RS-232 receive data from CEC/IMC Manager
4	5	—	GND	RS-232 data ground for CEC/IMC Manager
15	—	2	Y TXD0 232	RS-232 transmit data to System Manager
22	—	3	Y RXD0 422-	RS-232 receive data from System Manager *
11, 21	—	5	Y-RXD0 422+ and GND	RS-232 data ground for System Manager *

\* MOM Concentrator Card grounds the CEC/IMC RS-422+ receive serial line (differential) and the RS-422- receive serial line is used for RS-232 (single-ended) serial interfacing



**MOM CONCENTRATOR CARD**  
**19D903533P1**

(19D903533, Rev. 2)  
(MADE FROM 19B801996, Rev. 1)

MOM CONCENTRATOR CARD  
19D903533P1

## ISSUE 1

SYMBOL	PART NUMBER	DESCRIPTION
J1		----- CONNECTORS----- Header: 24-pin dual-row; AMP 499582-5
J2 and J3		Jack: DB-9 female; AMP 745438-2  ----- MISCELLANEOUS----- Latch: AMP 102320-1 (Qty. of 2 required; used with J1). Kit: Screwlock, female: AMP 745563-1. Screw, machine: No. 4-40 x .437" (Qty. of 4 required; used with J2 and J3). Nut, hex: No. 4-40 (Qty. of 4 required; used with J2 and J3). Lockwasher: No. 4, internal tooth (Qty. of 4 required; used with J2 and J3). Spacer: .250" OD, .152" ID, .094" long (Qty. of 4 required; used with J2 and J3).

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Printed in U.S.A.